

## MICROARRAYS FOR PERFORMING PROTEOMIC ANALYSES

### ABSTRACT OF THE DISCLOSURE

5        Provided are peptidomimetic protein-binding arrays, their manufacture, use,  
and application. The protein-binding array elements of the invention include a  
peptidomimetic segment linked to a solid support via a stable anchor. The invention  
contemplates peptidomimetic array element library synthesis, distribution, and  
spotting of array elements onto solid planar substrates, labeling of complex protein  
10        mixtures, and the analysis of differential protein binding to the array. The invention  
also enables the enrichment or purification, and subsequent sequencing or structural  
analysis of proteins that are identified as differential by the array screen. Kits  
including proteomic microarrays in accordance with the present invention are also  
provided.